

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 96605/29PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2005/001813	International filing date (day/month/year) 20/01/2005	(Earliest) Priority Date (day/month/year) 20/01/2004
Applicant THE UNIVERSITY OF HOUSTON SYSTEM		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

SUPERCONDUCTING LOOP, SADDLE AND BIRDCAGE MRI COILS COMPRISING BUILT-IN CAPACITORS

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 9

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01R33/34 G01R33/341 G01R33/3415

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC, FSTA, BIOSIS, EMBASE, MEDLINE, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/067167 A1 (ROMO MARCO A ET AL) 6 June 2002 (2002-06-06) paragraph '0001! paragraph '0004! - paragraph '0006! paragraph '0027! - paragraph '0032! figures 2-6	1-8, 11-18, 21-28, 31-38
X	US 5 585 723 A (WITHERS ET AL) 17 December 1996 (1996-12-17) column 1, lines 7-13 column 6, line 64 - column 7, line 34 figures 5,6 ----- -/--	1-3,5-8, 21-23,28

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

11 October 2005

Date of mailing of the international search report

26/10/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Streif, J

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 93/24848 A (CONDUCTUS, INC) 9 December 1993 (1993-12-09) page 1, lines 3-5 page 9, line 24 - page 10, line 16 figures 12,13 -----	1-3,5-8
X	US 5 565 778 A (BREY ET AL) 15 October 1996 (1996-10-15) column 1, lines 27-31 column 5, line 23 - column 6, line 51 figures 2a,2c,3 -----	1-3,5-7
X	EP 1 251 361 A (BRUKER BIOSPIN AG) 23 October 2002 (2002-10-23) paragraph '0001! paragraph '0032! - paragraph '0060! figures 4,10a-12,20,22 -----	1-3,5,9, 10
X	WOSIK J ET AL: "A novel planar design of 200 MHz superconducting array" PROCEEDINGS OF THE INTERNATIONAL SOCIETY FOR MAGNETIC RESONANCE IN MEDICINE, 11TH SCIENTIFIC MEETING AND EXHIBITION, TORONTO, ONTARIO, CANADA, 10-16 JULY 2003, 10 July 2003 (2003-07-10), page 2373, XP002348446 the whole document -----	1-3,5-10
X	EP 0 895 092 A (BRUKER AG) 3 February 1999 (1999-02-03) paragraph '0001! paragraph '0018! paragraph '0029! paragraph '0032! - paragraph '0051! figures 1a-3,7,9a,9b -----	1-40
X	CHOW MS ET AL: "A two-channel HTS thin-film phased array coil for low field MRI" PROCEEDINGS OF THE INTERNATIONAL SOCIETY FOR MAGNETIC RESONANCE IN MEDICINE, 11TH SCIENTIFIC MEETING AND EXHIBITION, TORONTO, ONTARIO, CANADA, 10-16 JULY 2003, 10 July 2003 (2003-07-10), page 2372, XP002348447 the whole document -----	1-3,5-8, 41
	----- -/--	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MALAGOLI A ET AL: "Radiofrequency response of Ag-sheathed (Bi,Pb)2Sr2Ca2Cu3O10+x superconducting tapes"</p> <p>PHYSICA C, NORTH-HOLLAND PUBLISHING, AMSTERDAM, NL, vol. 378-381, October 2002 (2002-10), pages 1087-1090, XP004383056</p> <p>ISSN: 0921-4534</p> <p>the whole document</p> <p>-----</p>	1-41
A	<p>BOCK N A ET AL: "Multiple-mouse MRI" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 49, no. 1, January 2003 (2003-01), pages 158-167, XP002281379</p> <p>ISSN: 0740-3194</p> <p>the whole document</p> <p>-----</p>	1-41
A	<p>WO 00/70356 A (INTERMAGNETICS GENERAL CORPORATION) 23 November 2000 (2000-11-23)</p> <p>the whole document</p> <p>-----</p>	1-41
A	<p>DE 42 18 635 A1 (SIEMENS AG, 80333 MUENCHEN, DE) 9 December 1993 (1993-12-09)</p> <p>the whole document</p> <p>-----</p>	1-41
A	<p>FR 2 616 911 A (THOMSON CGR) 23 December 1988 (1988-12-23)</p> <p>the whole document</p> <p>-----</p>	1-41

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002067167	A1	06-06-2002	EP 1290462 A1	12-03-2003
			JP 2003535631 T	02-12-2003
			WO 0194964 A1	13-12-2001
			US 6377047 B1	23-04-2002
US 5585723	A	17-12-1996	NONE	
WO 9324848	A	09-12-1993	AT 213547 T	15-03-2002
			AU 677590 B2	01-05-1997
			AU 4400493 A	30-12-1993
			CA 2137079 A1	09-12-1993
			DE 69331604 D1	28-03-2002
			EP 0654147 A1	24-05-1995
			JP 8500436 T	16-01-1996
			US 5276398 A	04-01-1994
US 5565778	A	15-10-1996	US 5619140 A	08-04-1997
			US 5594342 A	14-01-1997
EP 1251361	A	23-10-2002	DE 10118835 A1	31-10-2002
			JP 2002341001 A	27-11-2002
			US 2002190715 A1	19-12-2002
EP 0895092	A	03-02-1999	DE 19733574 A1	04-02-1999
			JP 3066359 B2	17-07-2000
			JP 11133127 A	21-05-1999
			US 6121776 A	19-09-2000
WO 0070356	A	23-11-2000	AU 5441100 A	05-12-2000
DE 4218635	A1	09-12-1993	NONE	
FR 2616911	A	23-12-1988	NONE	